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Unit 4, Lesson 5: How Many Groups? (Part 2)

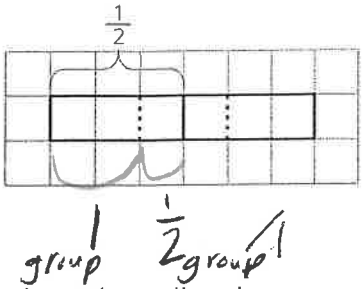
1. Use the tape diagram to represent and find the value of $\frac{1}{2} \div \frac{1}{3}$.

think how many $\frac{1}{3}$'s in $\frac{1}{2}$,

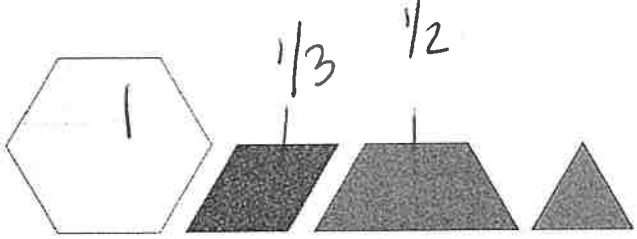
Mark up and label the diagram as needed.

more than 1, but less than 2

1 1/2 $\frac{1}{3}$s



2. What is the value of $\frac{1}{2} \div \frac{1}{3}$? Use pattern blocks to represent and find this value. The yellow hexagon represents 1 whole. Explain or show your reasoning.



1/2 group of $\frac{1}{3}$

1/2 so 1 1/2 1

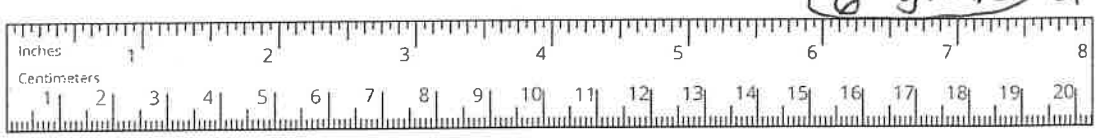
3. Use a standard inch ruler to answer each question. Then, write a multiplication equation and a division equation that answer the question.

a. How many $\frac{1}{2}$s are in 7? $\frac{1}{2} \times ? = 7$ $7 \div \frac{1}{2} = ?$ $7 \times 2 = 14$

b. How many $\frac{3}{8}$s are in 6? $\frac{3}{8} \times ? = 6$ $6 \div \frac{3}{8} = ?$ $6 = \frac{48}{8} \div \frac{3}{8} = 16$

c. How many $\frac{5}{16}$s are in $1\frac{7}{8}$? $\frac{5}{16} \times ? = 1\frac{7}{8}$ $1\frac{7}{8} \div \frac{5}{16} = ?$ $1\frac{7}{8} = \frac{15}{8} = \frac{30}{16}$

I can get 6 groups of $\frac{5}{16}$



4. Use the tape diagram to represent and answer the question: How many $\frac{2}{5}$s are in $1\frac{1}{2}$?

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How many 2/5's in 1 1/2?

Mark up and label the diagram as needed.

$3\frac{3}{4}$

whole is divided into $\frac{1}{5}$'s

1

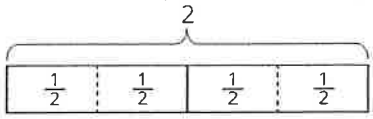
5. Write a multiplication equation and a division equation to represent each question, statement, or diagram.

a. There are 12 fourths in 3.

M: $12 \times \frac{1}{4} = 3$

D: $3 \div 12 = \frac{1}{4}$ or $3 \div \frac{1}{4} = 12$

b.



M: $4 \times \frac{1}{2} = 2$

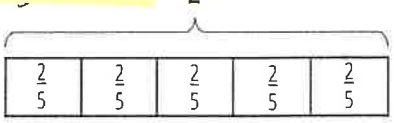
D: $2 \div \frac{1}{2} = 4$ or $2 \div 4 = \frac{1}{2}$

c. How many $\frac{2}{3}$s are in 6?

M: $\frac{2}{3} \times ? = 6$

D: $6 \div \frac{2}{3} = ?$ $6 \div ? = \frac{2}{3}$

d.



M: $\frac{2}{5} \times 5 = 2$

D: $2 \div \frac{2}{5} = 5$ or $2 \div 5 = \frac{2}{5}$

(from Unit 4, Lesson 4)

/8

6. At a farmer's market, two vendors sell fresh milk. One vendor sells 2 liters for $3.80, and another vendor sells 1.5 liters for $2.70. Which is the better deal? Explain your reasoning.

$\frac{\$3.80}{2 \text{ liters}}$ $1.90 for 1

or

$\frac{\$2.70}{1.5 \text{ liters}}$ $1.80 for 1 — better

1

(from Unit 3, Lesson 5)

7. A recipe uses 5 cups of flour for every 2 cups of sugar.

a. How much sugar is used for 1 cup of flour? $\frac{2}{5}$

b. How much flour is used for 1 cup of sugar? $\frac{5}{2} = 2\frac{1}{2}$

c. How much flour is used with 7 cups of sugar? $\frac{35}{2} = 17\frac{1}{2}$

d. How much sugar is used with 6 cups of flour? $\frac{12}{5} = 2\frac{2}{5}$

F	S
5	2
1	$\frac{2}{5}$
$\frac{5}{2}$	1
$\frac{35}{2}$	7
6	$\frac{12}{5}$

÷5, ÷5, ÷2, ÷2, ×7, ×7, ×6, ×6

4

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